

SURFARI 50 RIGID HULL HYBRID INFLATABLE

SPECIFICATION AND STANDARD EQUIPMENT LIST

PRINCIPAL DIMENSIONS

Length over all:	52.91'	16.13 m
Length DWL:	44.00	13.91 m
Beam max:	14.75'	4.50 m
Draft:	2.15'	.650m
Displacement at DWL:	29,500 lbs.	13,400 kg
Fuel:	750 Gals.	2,800 Lts.
Water:	200 Gals.	750 Lts.

CERTIFICATION

The vessel is ISO CE Mark Category B - Ocean as outlined in the Royal Yachting Association Recreational Craft Directive 2003/44EC.

All machinery and engineering systems are to be designed and built in accordance with the United States Coast Guard (U.S.C.G) Code of Federal Regulations, Safety Standards and Regulations for Recreational Boats and Equipment Regulations for Operators of Recreational and Undocumented Vessels. All machinery and engineering systems should comply with the appropriate American Boat and Yacht Council (ABYC) standard, namely; fuel oil system, venting/sounding, shell connections, bilge system, firefighting, steering, electrical system, and pressure vessels.

STRUCTURAL

Hull: The hull is composite constructed using e-glass fabrics, reinforced with carbon fiber

capping on structural stringers and bulkheads laminated with epoxy resin over a Corecell foam core of varying densities. Hull materials include bi-axial and tri-axial and unidirectional fabrics. Post cured. Solid skins and additional patching at all hull penetrations, centerline and hull flange.

penetrations, centernie and nun mange.

Transom: Transom to be engineered and laminated to facilitate triple or quad outboard installations.

The transom is to be engineered to facilitate solid core construction with transom thickness, transom height and angle as defined by the outboard manufacturer's standard

installation guidelines.

Deck: The deck is composite constructed using e-glass fabrics, reinforced with carbon fiber

capping on structural stringers and bulkheads laminated with epoxy resin over a Corecell foam core of varying densities. Deck materials include bi-axial and tri-axial and unidirectional fabrics. Post cured. Solid skins and additional patching at all hull

penetrations, centerline and hull flange.

Bulkheads: Interior partitions to be 18mm lightweight foam composite with Nevamar "Smokey white"

glossy finish or equal unless otherwise designated.

Structural bulkheads, divisional bulkheads, forepeak and engine room bulkheads will be

light weight composite bulkheads consisting of a base laminate as follows:

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DECK AND DECK HARDWARE

D Tube: The pontoons are air/foam hybrid D tube collar will be integral with the hull and deck

flange. The D tube collar will be approx. 70 mm in height and 270 mm wide. The D tube will be constructed of Mil Spec 40 oz. polyurethane fabric with heat welded seams. There will be a recessed bolt rope attachment system built into the top and bottom of the

D tube rebate in the hull sides.

Anchor Locker: The anchor locker is accessible by a Solimar flush deck hatch fit to the fore deck or a

Man Ship stainless steel hatch fixed to the forepeak bulkhead. Located in the anchor locker there is a stainless-steel anchor roller assembly for a self-launching 55lb. Delta

anchor fit with 60m of 6mm chain.

Anchor Wash: Saltwater anchor wash system located the in-anchor locker with 10' length of reinforced

hose and quality spray nozzle.

Primary Anchor: The primary anchor is a Lewmar 55 lb. Delta polished stainless steel self-launching fast

set anchor. The anchor is permanently stowed in the self-launching anchor whip.

Second Anchor: One (1) Fortress FX 37 aluminum anchor loosely stowed in the bow anchor locker. Anchor chain: One (1) chain: 3/8" hi-tensile link, galvanized chain, 250'. The chain for the anchor will

be stowed in the anchor locker with dead end lashed to the pad eve installed at the base of

the chain locker.

Anchor rode: One (1) chain: 3/8" hi-tensile link 30' galvanized chain with 200' of three stand 3/4" nylon

braid with appropriate shackles and thimbles. The chain / rode for the secondary anchor

will be stowed in the lazarette along with the secondary anchor.

Windlass: Lewmar V3 12 VDC electric stainless-steel anchor windlass with two-foot buttons and a

remote control.

Cleats: Ten (10) Seasmart B320X AISI 316 Stainless-steel pop up cleats. Hatches: Two (2) Solimar Type T flush cockpit sole hatches No. 064B660.

Two (2) Solimar Type T flush cockpit sole hatches No. 064B660 x 1240.

One (1) Solimar Type TVB flush forepeak hatch No. 064B660.

Three (3) Solimar Type TVB flush cabin top roof hatches No. 064B385.

Two (2) Man Ship stainless steel aft cockpit seat hatches with clear opening size of 450

mm x 780 mm.

One (1) Custom sized Man Ship stainless steel hatches.

Two (2) Man Ship stainless steel anchor locker hatch with clear opening size of 450 mm

x 450mm.

Helm chairs: Four (4) Stidd 500-200-1X2 Admiral Low back 360-degree swivel with 45 degree

locking indents, telescoping pedestal with 8" vertical height range, 8" fore and aft slide,

folding footrest, folding armrests and inclining backrest.

Towing Bits: Two (2) Custom stainless-steel Sampson posts 4" dia. forward and aft thru bolted into

composite tube supports.

Ensign: 5' varnished teak flag staff and 3'x 5' US yacht ensign commissioning flag. Stainless

steel cap rail mounted flag socket.

Storage Bins: Two custom 12" x 24" bins for cockpit storage.

Drink Holders: Eight (8) custom drink holders in cockpit all with polished stainless-steel trim and lining.

Grab Rails: Two (2) forward cabin top 11/4" dia. polished stainless-steel fabricated rails.

Two (2) aft swim platform 1¹/₄" dia. polished stainless-steel fabricated rails.

Swim Ladders: Two (2) Osculati Top Line Model No. 49.544.04 four step flush mounted recessed, pull

out swim ladder to be cut into and set flush to the aft face of the centerline stern swim

platform.

Barb-B-Que: A Kenyon B70060 120VAC stainless-steel propane Bar-B-Que grill to be recess mounted

into the starboard side cockpit countertop.

Search Light: One (1) ACR RCL 75 Remote control searchlights 12 VDC are to be mounted forward

and aft on the deck house roof with control panels located at the helm station.

Deck drains: Six (6) Custom designed bead blasted stainless steel deck scuppers located in the cockpit

area.

Deck Pad Eyes: Eight (8) Harken 3206 Folding pad eyes mounted on roof top for tie down purposes.

Service Areas: Two (2) Composite counter service counters with hinged tops with stainless steel piano

hinges. Each with front opening hinged doors with Southco push button cabinet locks. Inside of the service areas there will be fixed King Starboard shelving. There will be drop

front shallow storage areas above the counter tops using s.s. piano hinges and Southco

push button cabinet latches.

Windshield: Taylor Made Systems front windows incorporating 99% UV blocker and black ceramic

borders for direct bonding method. Glass to be 12mm thick laminated, the tint color is to

be 6T08 Green, 77% VLT with polished edges.

Side Windows" Taylor Made Systems side Taylor Made Systems side windows incorporating 99% UV

blocker and black ceramic borders for direct bonding method. Glass to be 12mm thick

laminated, the tint color is to be 6T08 Green, 77% VLT with polished edges.

Two (2) Aft side windows 750 mm x 1100 flat glass.

Two (2) Mid side windows 750 mm x 1000 flat glass. Opening. Two (2) Forward side windows 750 mm x 1100 mm flat glass.

Portlights: Four (4) custom fixed glass ports set flush in cabin house side. The port lights have

detailed interior painted wood spigots. The glass is to be tinted safety glass, The Perspex

tint color is to be 6T08 Green to match that of the windshield and side windows.

Wipers: The wiper system is a ROCA, W50 pantograph three arm wiper system with black finish,

water jet wash system, black stainless steel 28" long blades, wiper control system with

two speeds and dynamic park feature.

Rod Holders: Four Mate Series "Elite Screw less" combination rod and cup holders with round tops

installed on aft quarter side decks.

EXTERIOR

Seating: Molded cockpit seats in fore and aft cockpits finished with Awl Grip in Owner's choice

of color. All settees come with custom bottom and backrest cushions, 4" thickness. All cushions upholstered in owner's choice of *Perennials* or equivalent fabric (\$100/yard

allowance).

Service areas: Port and starboard composite service areas fit with hinged composite doors and hinged

drop fronts. The top of the port side countertop has a hinged top to access the electric barb-que grill. The hinged doors and drop fronts have stainless steel piano hinges and Southco push button latches. Bottom of cabinets fit with white King starboard shelving.

Steering Wheel: 13-3/4" Isotta Carlotta Steering Wheel, Dark Carbon Fiber / stainless steel finish Model

No. 731-1405CFB".

Console: Custom steering console fit with Mercury control and operating equipment, Garmin nav

equipment, exterior lighting controls.

Stowage: Storage areas outboard of port and starboard helm seats.

Two Stainless steel sheet rimmed bins one each port and starboard by helm.

Cockpit Sole: The covered helm area, aft cockpit sole and side decks will be laid with natural teak. All

rebates in the teak decking should be filled with Teak Deck Systems Black SIS440 teak caulk. The teak planks will run parallel to centerline with a border around all hatches and

around the entire perimeter.

Companionway: One piece sliding Trend Marine Type 113-50 Stainless-steel flat panel door with

radiused turn to slide to port side. Door and horizontal part fixed together and slide as one unit. Door fit door consists of a composite fabricated single piece drop down vertical door with a hinged three-piece horizontal top. The drop-down companionway door will

be painted to match cockpit sides.

Cockpit Curtains: The helm area will be fit with port and starboard side curtains and a centerline roll up

door fixed to the roof with an anodized bolt rope and blind fasteners at the base.

The side curtains are to be made to easily unzip and roll up for storage or roll up and be

removed and stored in special built bags.

INTERIOR

Interior Finish: Cabin and cabinet doors are to be flat fielded panels with beaded detailed trim. Cabin

doors are to be approx. 32 mm thick; cabinet doors are to be 20mm thick. The door opening case, door frames and stiles and the flat panels are painted, or laminate covered

in Nevamar glossy textured "Smokey White" laminates.

Overhead: Painted white v-groove overhead.

Soles: Cabin soles in the head and shower are natural teak with a TDS Gray caulk seam.

Cabin soles in the lower cabin area painted composite panels covered with a Bolon

flooring.

Cabin soles will have natural teak border approx. 65 mm wide with radiused edge

adjacent.

Locker Doors: Framed edges with solid flat fielded panel painted "Smokey White". Port side forward

locker cedar lined with lift out bottom for hanging locker.

Hardware: Piet Boone – Chrome/Polished S.S.

Drawers: Solid beaded flat panel teak with lift and pull drawer slides and custom cast bin pulls. Countertops: Corian, in owner's choice of colors with radiused edges at facia and teak fiddles.

Sinks: Stainless steel underhung sink in galley, *Corian* sink in head.

Faucets: Grohe faucet in galley and Grohe mixer tap in head.
Shower: Grohe hand-held shower unit mounted on head bulkhead.

Drainage: Cabin soles in the head and shower are natural teak with a TDS Gray caulk seam with

edge drain to sump and direct overboard discharge pump.

Fixtures: Towel bar, soap dish, toilet paper holder, toilet brush.

Microwave: Sharp microwave/toaster mounted on teak shelf in galley locker. Coffee Maker: Keurig gourmet one-cup brewing system in galley locker.

Cold Box: Custom stainless steel lined cold box recessed in galley countertop with removable

plexiglass shelving.

Berths: Double berth forward with 5" thick cushion.

Settees used as additional berths. Stowage shelves and lockers above settees. All upholstery to be owner's choice. Standard fabric allowance of \$100/yard.

Galley: The galley will be Nevamar glossy textured "Smokey White" laminates cabinet faces

and carcasses below counter height, Nevamar glossy textured "Smokey White"

laminates glossy white painted corner posts, trim, drawers and framed cabinet fronts. The overhead will be painted v-grove panels and the cabin sole natural teak perimeter with industrial Bolon finish. Bulkheads above fiddle height to be Nevamar glossy white.

Cook Top: Kenyon Marine Caribbean 2 burner B41601 120 VAC.

Microwave: Sharp R-305KS

Refrigerator: Webasto INOX Light Two Drawer refrigerator only 12 VDC with stainless steel face.

MECHANICAL

Fabric:

Engine: Triple (3) Mercury Marine Verado 400 HP outboard engines.

One (1) 400 XL Verado JPO Warm Fusion 5.44 HD 1.85 Cambered Skeg 25" One (1) 400 CXL Verado JPO Warm Fusion 5.44 HD 1.85 Cambered Skeg 25" One (1) 400 XXL Verado JPO Warm Fusion 5.44 HD 1.85 Cambered Skeg 30"

Controls: ERC Kit, Triple chrome display, Vessel View 703

Fuel Tanks: Three tanks totaling 750 gallons. Custom fabricated 316L stainless steel non-corrosive

welded construction. Each tank fit with WEMA 240/33 Ohm senders.

Each tank will be fit with a 2" dia. fill pipe, a 5/8" dia. vent pipe, and two 3/4" pick up

pipes for each main engine. Pick up pipes with emergency shut-off valve.

Propellers: Two (2) 16 x 18.5 RH SS Enertia ECO XP Propellers

One (1) 16 x 18.5 LH Enertia ECO XP Propeller

Filter: One Racor 120R-RAC-01 fuel filter will be supplied for each main engine. One spare

supplied if optional generator is purchased.

Vents: Vent line with *Racor* LG100 vent spillage filters.

Steering: Mercury Marine power steering with Skyhook, DriftHook, Heading Adjust and

BowHook.

Ventilation: Air will be drawn in from the port and starboard storage bins through stainless steel

ventilation louvers taking fresh air ducted to the Mechanical space. Intakes to have water stop baffles. Exhaust air will be extracted from the engine room to exhaust through stainless steel ventilation louvers boxes situated on the exterior of the cabin house side

adjacent to the mechanical space.

ELECTRICAL

House Batteries: Two (2) Lifeline Group D, 12V DC batteries, 255 Amp Hrs. each (510 Amp Hrs. Total). Starting Battery: Three (3) Lifeline Marine Start, 12V DC batteries, 950 CCA each (1900 CCA Total).

Distribution: Custom DC back lit panel with circuit breakers and battery condition meter.

Alternators: Engine supplied standard alternator to charge starting and house bank.

125V / 30-amp shore power connection in cockpit with 50' cord.

Battery Switch: Battery bank switch with DC main breaker.

Inverter: Mastervolt Sine wave inverter, mass sine 12/2500/117VAC 60 Hz.to be switched on the

main AC electrical panel. Inverter shall power microwave and 110V outlets.

Reading Lights: Four (4) Cabin Ocean ss with double switch.

Dome Lights: Ten (10) Cabin ANNE ss with double switch.

Utility Lts: Mechanical room and stern locker will have Aqua Signal LED utility lights.

Exterior Lts: Four (4) Cantalupi Susy red / white dome lights.

Courtesy Lts: Twelve (12) Cantalupi Leon SS

Nav Lights: Port and Stbd Lopo Lights (200-016 / 200-118).

Stern Light: Lopo 200-024. Steaming Light: Lopo 200-024.

Search Light: One (1) Night Blaster Blue-Eye KB-4001 12 V DC. 12V Outlets: Three 12V plug located at helm, galley, forward cabin.

110V Outlets: Six (6) 110V plugs: galley, head, forward cabin, port and starboard helm.

USB Outlets: Six (6) USB Double outlets, two in cockpit, one in galley, one port salon, two fwd cabin.

Shore power: One (1) shore connection of 125/250 VAC at 30 amps.

Grounding: The shore earth is separated from the ship's earth by a "Galvanic Isolator" mounted

behind the main switchboard.

Lightning Sys: Coper lightning rod, connected to two ground plates mounted on hull bottom.

PLUMBING

Water system: Hot and cold pressure water system to galley, head, shower and cockpit shower.

Water Tank: 200 gallons of water capacity in two independently valved tanks. The water tanks are to

be fit with a WEMA S-5U-Series 10-180 ohms sender.

Water pump: Headhunter 12VDC XR 124 self-priming water pump.

Water Heater: Force 10, 6-gallon tank to be powered by AC electrical heating element and from re-

circulating through the main engine.

Toilet: Tecma Silence Elegance Cut electric freshwater toilet with overboard/holding tank

discharge.

Waste Tank: 30 Gallon holding tank with overboard drain/pump out discharge. A Garmin GFL-10 is to

be wired directly into the Tank Level Four sensor enabling black water tank levels to be

read off of the Garmin chart-plotter.

Bilge Pumps: Three (3) 24 VDC, 1500 GPH, 1-1/8" dia. port, submersible bilge pumps mounted in

recessed pockets. These pumps will discharge overboard above the waterline vented

loops and non-returns at overboard.

Bilge Pump: One manual Whale bilge pump operated from the cockpit.

Sump Pump: The gray water discharge system consists of Whale Marine GT 0812B or equal waste

tank with intelligent control GK 1512 and a Gulper 320 pump and strainer system.

Thru-hulls: Forespar flush-mounted sea cocks below the waterline all double-clamped hoses.

NAVIGATION

Compass: One (1) Garmin 125 FTC flush mount compass.

GPS: Two (2) Garmin GPSMAP 8616 multifunction displays.

Displays: Three (3) GNX 130 10" displays two located at helm, one at forward berth. Radar: One (1) GMR 24xHD radar 010-00960-00, Radome to be fit to roof top.

Wind Inst: One (1) gWind with GND 10, at the roof top mast. Sounder: One (1) GSD 24 Sounder Module 010-00957-00.

Network: One (1) GNT 10, N2k data to wireless ANT Network 010-01134-00.

Card Reader: One (1) Garmin SD Card Reader, 010-01023-00.

VHF: One (1) VHF 300 with GHS 10i, active speaker and wired handheld remote is mounted

on the port side of the console.

AIS: One (1) AIS 600 Kit, 2 m N2k Drop cable.

Auto Pilot: One (1) GHP Reactor – with core pack 010-00705-65 for drive unit and pump set.

One (1) GHC 20 Auto pilot control unit.

Audio System: One (1) Fusion Marine MS-UD750 TFT color display.

One (10 Fusion marine MS-NRX300 Full function wired remote for the 70.

Two (2) sets of SG-F65W-Signature series 6.5" Interior White Grill 250-Watt speakers. One (1) SG-DA51600 Signature Series High Performance 1600-Watt, Class D-5 Channel

Digital amplifier.

One (1) Garmin GXM 52 antenna is located on the pilothouse roof top.

PAINT AND FINISH

Hull: Owner's choice of standard *Awlgrip* colors.

Deck: Owner's choice of standard gelcoat colors.

Bottom: Epoxy primed, painted with owner's choice of anti-fouling color. Boot Stripe: Single stripe, painted with owner's choice of *Awlgrip* color.

Exterior Teak: Minimum of nine coats gloss finish varnish.

Boat Name: Name and hail port on aft face of aft cockpit seat backrest.

OUTFITTING

Four 30' 3/4" black double braid dock lines with eye splice.

Four 50° 3/4" black double braid dock lines with eye splice.

Four 12" x 24" Aere Docking inflatable fenders with double braid lines and fleece covers.

Boat hook mounted in foredeck hatch.

One engine spares kit and metric tool kit with necessities provided.

Two (2) Swim ladders built into pockets in the swim platform.

SAFETY

Six (6) Sterns Adult Classic Series Type II buoyancy devices supplied in a storage bag.

Two (2) of the buoyancy devices will be suitable for children.

Six (6) SOLAS Mk 3 handheld rocket parachute red flares.

Six (6) SOLAS Mk 7 hand flares.

Six (6) SOLAS Mk 3 orange Life smoke canisters.

One (1) man overboard module, in a container mounted under cockpit seat.

Ten (10) Kidde Mariner handheld fire.

COMMISSIONING

Boat cleaned, tested and delivered in the water in Newport, RI.

Full owner's orientation in Newport, RI.

DOCUMENTATION

Friendship 40 Owner's Manual, all equipment manuals, construction drawings and all systems schematics.

Specifications subject to change without notice.



SURFARI 50 RIGID HULL HYBRID INFLATABLE

SPECIFICATION FOR OPTIONAL EQUIPMENT

MECHANICAL

Quad Engines:

Four (4) Mercury Marine Verado 400 HP outboard engines.

One (1) 400 L Verado JPO 5.44 HD 1.75 Cambered Skeg 20" Warm Fusion. One (1) 400 CL Verado JPO 5.44 HD 1.75 Cambered Skeg 20" Warm Fusion. One (1) 400 XXL Verado JPO Warm Fusion 5.44 HD 1.85 Cambered Skeg 25" One (1) 400 CXXL Verado JPO Warm Fusion 5.44 HD 1.85 Cambered Skeg 30"

One (1) ECR Quad Chrome Console.

One (1) Quad Engine Start / Stop Pad Starboard
One (1) Quad Engine Start / Stop Pad Port

One (1) Quad Tie-Bar Steering Kit

Sea Keeper:

One (1) Seakeeper 5 gyro stabilizer system fit to custom structural mounts located within the machinery space. The Seakeeper will be installed to the hull structure using the Seakeeper Saddle mount system using Plexus adhesive according to Seakeeper installation standards.

Manufacture: Seakeeper 5

Voltage: AC motor 2000 Watts DC Control 180 Watts

AC Input 110-230 VAC (+/- 10%), 50/60 Hz.

Single phs.

DC Input voltage 12VDC @ 15 amps.

Sea water supply Max 8 GPM

The Seakeeper 5 will be direct mounted to the hull structure in the Machinery space. Located adjacent to the Seakeeper there will be a thru hull for the sea water pump. The seawater pump will be an MP Pump. CFX 75 Series 12V DC 316 stainless steel centrifugal pump, model no. MP3441. Rated at 28 GPM. The Seakeeper Control Module will be located at the helm console.

Bow Thruster:

One electric tunnel bow thruster will be installed. Thruster will be powered by its own 12VDC battery bank

Manufacture Lewmar

Type Model Number 185TT Power 6.0KW (10.7 HP), 12VDC

Details Controlled by Antal foot buttons at helmsman's

feet.

Foot buttons Antal w/ grey boots

Thruster installation complete with: 400AMP ANL type fuse thruster

Thruster fuse holder

Generator:

The Westerbeke 7.5 KW generator will be located in the mechanical space and installed in its own sound enclosure. Generator will be controlled at the ships main electrical control panel with all necessary push buttons for start/stop, standard gauges and alarms.

Manufacturer: Westerbeke

Type: 7.5 KW MCGA 614 loc-CO

3 cylinder

Naturally aspirated; water cooled

Number of revolutions: 1800 RPM

Voltage: 120/240 VAC single phase - 60 Hz

Starter motor 12 VDC - 2-pole

One (1) alternator for charging the starting

battery

Voltage: 12 VDC - 2-pole Charging amps: Factory spec

Raw water pump for cooling Four (4) hydro-mounts

Factory supplied sound shield enclosure

Air Conditioning:

There will be two self-contained reverse cycle air conditioning units, one for the forward cabin area and one for the helm / piloting area providing both air conditioning and heating cycles through the installed ductwork. The condensation from the units will be plumbed to the forward sump.

The two units will share a raw water inlet and have independent cooling water outlets placed below the boot top in the bottom paint above FWL.

The reverse-cycle AC system is divided into two zones.

Zone 1 is the lower accommodation's and is fit with a Marine Air VCD 16KZ/2 in the forward cabin under the berth. The air is drawn from the vertical sides of the forward berth and cool air is discharged through the grills in the horizontal surfaces next to the berth.

Zone 2 is the piloting / cockpit area and is to be fit with a Marine Air VCD 16KZ/2 unit to be installed under the port or starboard side aft countertop areas.

Each zone is controlled via its own temperature controls.

The Zone 1 ac unit will be in the forward cabin.

The Zone 2 control unit will be located adjacent to the main companionway opening.

Retractable Sun Awning:

A 12VDC custom fabricated SureShade retractable sunshade will be built into the underside of the cabin house top overhang. SureShade to be controlled via custom panel with Schurter switches.

Switch panel to be located at the aft starboard inboard transom face. SureShade material to be owner's choice of color.

Cockpit Refrigeration:

One (1) Webasto DR 160 Inox Light 24 VDC two drawer stainless steel face refrigerator installed in the aft end of the starboard cockpit counter.

The two-draw box is to be set flush and installed with a custom st st. trim ring.